

AMENDMENT UNDER 37 C.F.R. § 1.111
USSN: 09/740,975

**Please delete the present Abstract of the Disclosure and replace it with the following
new Abstract of the Disclosure.**

A transmission diversity detection system that detects the presence or absence of a STTD transmission diversity by a simple arithmetic operation. The transmission diversity detection circuit notifies presence or absence of a transmission diversity of spread spectrum communication by modulation of a synchronization channel (SCH). The transmission diversity detection circuit includes arithmetic circuit for calculating a calculated value of $C_{2n,0} \times S_{2n,0}^* + C_{2n,0}^* \times S_{2n,0} + C_{2n,1} \times C_{2n,1}$, in first and second symbols in a predetermined number of series of slots with respect to a reception signal, taking a primary common pilot channel (CPICH) symbol with respect to the first symbol as $C_{2n,0}$, a SCH symbol with respect to the first symbol as $S_{2n,0}$, and a primary CPICH symbol with respect to the second symbol as $C_{2n,1}$, taking a complex conjugate of the primary CPICH symbol $C_{2n,0}$ as $C_{2n,0}^*$, a complex conjugate of SCH symbol $S_{2n,0}$ as $S_{2n,0}^*$, and a complex conjugate of the primary CPICH symbol $C_{2n,1}$ as $C_{2n,1}^*$ and judgment circuit for making judgment whether transmission diversity is present or not depending upon positive or negative of the calculated value.